

TRUFYAKOV, V.I., kand. tekhn. nauk; MIKHEYEV, P.P., inzh.

Ways of increasing the endurance of welded joints. Avtom.
svar. 17 no.11:28-36 N '64 (MIRA 18:1)

1. Institut elektrosvarki im. Ye.O. Patona, AN UkrSSR.

TRUFYAKOV, V.I.

Yield limits of welded structures made of M6C steel. Avtom. svar. 16
no.2:17-25 F '63. (MIRA 16:4)

1. Institut ekletrosvarki imeni Ye.O.Patona AN UkrSSR.
(Steel, Structural—Welding) (Strains and stresses)

TRUFYAKOV, V.I.

Methods of the endurance testing of weldments. Avtom. svar.
16 no.1:1-8 Ja '63. (MIRA 16:2)

1. Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR.
(Metals—Fatigue) (Welding—Testing)

TRUFANOV, V.N.

Silexites as intermediate formations between pegmatites and
quartz veins. Izv. vys. ucheb. zav.; geol. i razv. 6 no.12;
75-82 D '63 (MIRA 18:2)

1. Rostovskiy gesudarstvennyy universitet.

RODZYANKO, N.G.; TRUFANOV, V.N.

Determining the temperature regime and succession of mineral
formation using the decrepitation method. Zap.Vses.min.ob-va
93 no.6:708-713 '64. (MIRA 18:4)

1. Gosudarstvennyy universitet, Rostov-na-Donu.

S/125/61/000/002/012/013
A161/A133

AUTHORS: Sterenbogen, Yu. A., Trufyakov, V. I.

TITLE: The First Far-East Welding Conference

PERIODICAL: Avtomaticheskaya svarka, no. 2, 1961, 93-94

TEXT: A welding conference, first in the Far East, was convened on 19-21 October 1960 in Vladivostok by GNTK Soveta Ministrov RSFSR (GNTK Council of Ministers of the RSFSR); Institut elektrosvarki im. Ye. O. Patona AN USSR (Electric Welding Institute im. Ye. O. Paton AS UkrSSR), Primorskiy, and Khabarovsk Sovnarkhozes, with the assistance of the Irkutsk, Amur, Chita, Yakutsk, Buryatiya, Magadan and Sakhalin sovnarkhozes. 275 delegates came from 95 plants and organizations and 9 research and teaching institutes. L. O. Zherdzinskiy, Deputy Chairman of Primorskiy Sovnarkhoz opened the conference. K. I. Barsukov, CPSU Kray committee Secretary welcomed the participants. V. A. Sterenbogen read the report of B. Ye. Paton, Academician of AS UkrSSR - "The Present State and Development Prospects of Welding Techniques in the USSR" outlining the success in the mechanization of welding and the tasks ahead, set by the plenary session of Central-Party Committee last July. F. S. Reznichenko, Chief specialist ✓

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The First Far-East Welding Conference

S/125/61/C00/C02/012/013
A161/A133

of GNTK RSFSR informed in his report "The Seven-Year-Plan of Welding Development in the RSFSR" on the planned increased volume of welded structures and improvements of the mechanization level. Ye. V. Deyev, Subdepartment Chief Gosplan RSFSR, gave information on the state and outlook of the equipment and materials supply. Gromyko described the latest VNIIESO work on new welding equipment. L. O. Zherdzinskiy and Ye. A. Baranovskiy (of Khabarovsk Sovnarkhoz) and Cherkasov (Irkutsk Sovnarkhoz) reported on the progress in the fulfilment of the government resolutions on the further introduction of welding into industry. Delegates of plants, laboratories and research institutes delivered the following reports: Yu. A. Sterenbogen, Candidate of Technical Sciences (Electric Welding Institute) - "Advanced Welding Methods"; Korotkov, A. G., Engineer (Khabarovsk) - "The State and Prospects of Introducing Electric Gas Welding of Steel Structures"; Simonov, Yu. I., Engineer (Khabarovsk) - "Aluminum Alloys Welding and its Development Prospects"; L. I. Ostapenko, Engineer (Komsomolsk) - "Automatic Welding of Low-Magnetic and Stainless Steels"; A. Ye. Yeliseyev, Engineer (Vladivostok) - "Application of Automatic Welding in the Block-Section Method in Ship Repair"; A. I. Popovich, Engineer (Komsomol'sk) - "Methods of Fighting the Welding Deformations"; M. S. Kulikov, Candidate of Technical Sciences (DVFTI) - "Experimental Stress Determination in the Assembly and Welding

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S/125/61/000/002/012/013
A161/A133

The First Far-East Welding Conference

of Sections with Longitudinal Joining System and Different Welding Technology";
V. T. Trufyakov, Candidate of Technical Sciences (Electric Welding Institute) -
"Some Problems Connected with the Strength of Welded Joints"; Yermakov, Engineer
- "Electro-Slag Welding and the Prospects of its Applications at the Khabarovsk
Sovnarkhoz Enterprises"; P. I. Gurevich, Engineer (Irkutsk) - "The Use of Weld-
ing Dredger Production"; N. V. Lishafay, Engineer - "Reconditioning Worn Machine
Parts by Semi-Automatic Submerged Arc Welding"; Yu. V. Gorokhov, Engineer
(Khabarovsk) - "Automatic Bronze Build-up on Steel Shafts"; V. A. Logvinov,
Engineer (Vladivostok) - "Automatic Helical Build-up of Shafts"; V. M. Malov,
Engineer (Khabarovsk) - "Saving Electric Power in Welding Operations"; V. A.
Kozlov, Engineer (Khabarovsk) - "Prospects of Using Local Ore Minerals for
Electrode Coatings". Many participants took part in the discussions. The
contents of reports and discussions showed certain success attained during the
past two years in the Far East and East Siberia in respect of the welding volume
and the application of new techniques, but the general welding mechanization
level is yet low, particularly in Yakutia and on Sakhalin. Commissions to
assist the introduction of new welding techniques are being organized at the
lagging enterprises. The lack of welding equipment and transformers is delaying
development at many places. There are yet no specialized and model plants for

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The First Far-East Welding Conference

S/125/61/000/002/012/013
A161/A133

advanced welding techniques, no base welding laboratories. The welding service at plants needs reorganization and aid. The organization of model welding plants should be continued, and the Far-East Sovnarkhozes must improve the situation without delay. The low skill of the trained welding operators was pointed out, as well as the lack of medium and high-skilled personnel. The Conference decision was aimed at the successful fulfilment of the government decisions. Welding films were demonstrated, consultation organized, and welding technique achievements demonstrated in an exhibition. [Abstracter's note: Essentially full translation].

Card 4/4

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

STERENBOGEN, Yu.A.; TRUFYAKOV, V.I.

First Far-Eastern Congress on Welding. Avtom. svar. 14 no.2:93-
94 F '61. (MIRA 14:1)
(Welding--Congresses)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUG, A.D.

Amount of 17-ketosteroids in 24-hour urine during mud therapy
of brucellosis patients at the Muyaldy Health Resort. Trudy
Inst.kraev.pat.AN Kazakh. S.S.R. 11:175-179 '62.

(MIRA 16:4)

(BRUCELLOSIS) (STEROIDS)
(MUYALDY—BATHS, MOOR AND MUD)

TRUG, A.D.

Protein fraction of blood serum during mud therapy of
brucellosis patients at the Muyaldy Health Resort. Trudy Inst.
kraev.pat.AN Kazakh. S.S.R. 11:180-184 '62. (MIRA 16:4)
(BLOOD PROTEINS) (BRUCELLOSIS)
(MUYALDY--BATHS, MOOR AND MUD)

TRUGANOV, A. V.

Vitamins

Vitamins of the folic acid group and vitamin B₁₂ and their correlation. Novosti med. no. 22, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Uncl. 2

TROUBETSKY, V. A.

32554. Ograztsovo podgotovit' k zime besovosnyye zheleznyye dorogo. les. prom-st',
1949, No. 9, s. 9-11

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

TRUGMAN, M., inzhener-ekonomist (Riga).

Technically based time norms. Prom. koop. 12 no.3:26-27 Mr '58.
(Production standards) (MIRA 11:3)

TRUGMAN, M.

Methodology for developing plant time norms. Sots. trud 6
no.5:81-89 My '61. (MIRA 14:6)
(Production standards)

TRUGMAN, Mark Iosifovich; BUDILOV, A.I.

[Practical aid for establishing technical standards of labor]
Prakticheskoe posobie po tekhnicheskому normirovaniyu truda.
Riga, Latviiskoe gos.izd-vo, 1959. 179 p. (MIRA 14:12)
(Job analysis) (Labor productivity)

EXCERPTA MEDICA Sec 19 Vol 3/1 Rehabilitation Jan 60

100. **The peripheral joint manifestations with ankylosing spondylarthritis**
Periferální projevy kloubní pri ankylosujici spondylartritide. TREHLOÁK P. Výzkumný
Úst. Chor. Revmat., Praha Čas. Lék. čes. 1958, 97: 15-16 (509-512) Tables.

In a group of 214 patients with Marie-Strümpell disease, peripheral joint manifestations occurred in 88 (.41%). The knee joint was involved in 36 patients, while excess knee joint fluid was found in more than 10% of all the patients. If there are

TRUHIAR, P.

Diagnosis, therapy, and determination of working capacity in inter-
vertebral disks diseases. Prakt. lek., Praha 32 no.19:446 5 Oct 1952.
(CLML 23:4)

TRUHLAR P.

POLAKOVA, Z.; POPELKA, S.; TRUHLAR, P.; HARTOVA, E.; NECHVATALOVA, L.;
PAUROVA, V.; ZAMOSTNA, M.; KRALIK, V.; LENOCH, F.; HAJKOVA, Z.;
HNEVKOVSKY, O.; KADLECICOVA, L.

Physical therapy in Bechterew's disease. II. passive exercises.
Fysiat. vest. Praha 32 no.3:72-86 Apr 54.

I. z II. kliniky pro ortopedii a detskou chirurgii Karlovy university
v Praze, prednosta prof. MUDr. O.Hnevkovsky. Z vyskumneho ustavu
chorob reumaticickyh v Praze, reditel prof. MUDr Fr.Lenoch. Z
fysiatrickeho a balneologiskeho ustavu Karlovy university v Praze,
prednosta prof. MUDr Fr.Lenoch.

(SPONDYLITIS, ANCYLOSING, therapy

exercise ther.)

(EXERCISE THERAPY

ancylosing spondylitis)

Truhlar, P.

LENOCH, F.; POLAKOVA, Z.; TRUHLAR, P.

Rest or movement therapy in ankylosing spondylitis. Rev. Czech. M.
3 no.3:226-236 1957.

1. Research Institute of Rheumatic Diseases, Prague. Director: Prof.
Fr. Lenoch Otrhopaedic Clinic of the Medical Faculty, Charles
University. Director: Prof. O. Hnevovsky.

(SPONDYLITIS, ANKYLOSING, ther.
rest & exercise ther.)

(REST
in ankylosing spondylitis)
(EXERCISE THERAPY, in various dis.
ankylosing spondylitis)

MALÝ VLAHOVSKÝ, PETR

SUCHÝ, Karel; TRUHLÁŘ, Petr; MALÝ, Václav

Comparative statistical study of the results of laboratory investigations in patients with ankylosing spondylitis and in normal patients. Acta chir. orthop. traum. czech. 24 no.1: 27-37 Jan 57.

1. Balneologicky ustav Karlovy university v Praze, Vyzkumný
ustav chorob reumatických v Praze a Ustav pro organizaci
zdravotnictví v Praze.
(SPONDYLITIS, ANKYLOSING, blood in
determ. of blood proteins by colloidal reactions, comparison
with normal persons (Cz))

TRUHLAR, Petr

Peripheral joint manifestations in ankylosing spondylarthritis. Cas. lek.
cesk. 97 no.15-16:509-512 18 Apr 58.

1. Vyzkumny ustav chorob revmaticych v Praze, reditel prof. F. Lenoch.
(SPONDYLITIS, ANKYLOSING, manifest.
joints, peripheral (Cz))
(JOINTS, in various dis.
ankylosing spondylitis, peripheral joint manifest. (Cz))

EXCERPTA MEDICA Sec 6/Vol 13/6 Internal Medicine June 59

3255. THE PERIPHERAL JOINT MANIFESTATIONS WITH ANKYLOSING SPONDYLOARTHROSIS - Periferální projevy kloubního ankylosujícího spondylartritidě -
Truhlař P. Výskumný Úst. Chor. Revmat., Praha - ČAS. LÉK. ČES. 1958,
97/13-18 (509-512) Tables I

In a group of 214 patients with Marie-Strümpell disease, peripheral joint manifestations occurred in 88 (41%). The knee joint was involved in 36 patients, while excess knee joint fluid was found in more than 10% of all the patients. If there are previous spinal symptoms, this combination may be a good indication for correct diagnosis. Other monoarthritides occurred only rarely. Aside from oligoarticular affection in 24 patients, there were polyarticular disturbances in 16. This syndrome, although it resembles typical progressive arthritis, has a series of differentiating characteristics; asymmetrical localization, centrifugal progression of joint involvement, a relatively more frequent occurrence of iritis, the occurrence of sternoclavicular arthritis, tendo-periostosis and osteo-periostosis, with a low Waaler-Rose-Heller titre. In connection with ankylosing spondyloarthritis, rheumatic fever was observed in 5 patients, in 3 of whom chronic damage to cardiac valves remained.

(VI, 9, 19)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

STRMKA, A.; TRUHLAR, P.

Radiological contribution to the early diagnosis of progressive
chronic polyarthritis. Cesk.rentg. 14 no.5:303-308 O '60.

1. Vyzkumny ustanov chorob revmatickych, Praha, red. prof. dr.
F. Lenoch
(ARTHRITIS, RHEUMATOID radiography)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUHLAR,Petr; STREDA,Adolf.

Evaluation of the stages of severity of progressive chronic polyarthritis and ankylosing spondyloarthritis according to x-ray picture. Cesk. rentg. 14 no.1:21-26 F '60.

1. Ustav chorob revmatickych. reditel prof. MUDr. Frant. Lenoch.
(SPONDYLITIS ANKYLOSING radiogr.)
(ARTHRITIS RHEUMATOID radiogr.)

KOPECKY, F., inz.; JAGEROVA, H.; TRUHLAR, V., inz.

Experiences in waste water purification in the Loukov oxidation ditch. Vodni hosp 15 no.4:165-169 '65.

1. District Water Resources Management Agency, Mlada Boleslav (for Kopecky and Jagerova). 2. Liaz, Mnlchovo Hradiste (for Truhlar).

TRUHLAR, V., inz.

Another circulation channel for waste water purification
was put into operation. Vodni hosp 14 no.4:141 '64.

TRUHLAROVA, M.

Results of control examination of the speech of stuttering patients
treated at the phoniatry department of Professor Seeman in Prague
7-10 years ago. Cesk. otolaryng. 11 no.1:20-29 F '62.

1. Foniatricke oddeleni a foniatricka laborator fakulty vseob. lek.
KU v Praze, prednosta prof. MUDr. M. Seeman, DrSc.

(SPEECH DISORDERS therapy)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

TRUIS, M. V.

38332

TRUIS, M. V., KLEBANOVA, A. A. and SUNDUKOVA, A. A.

K voprosy o mekhanizme deystviya streptomitsina. Problemy tuberkuleza, 1949,
No 6, s. 43-50

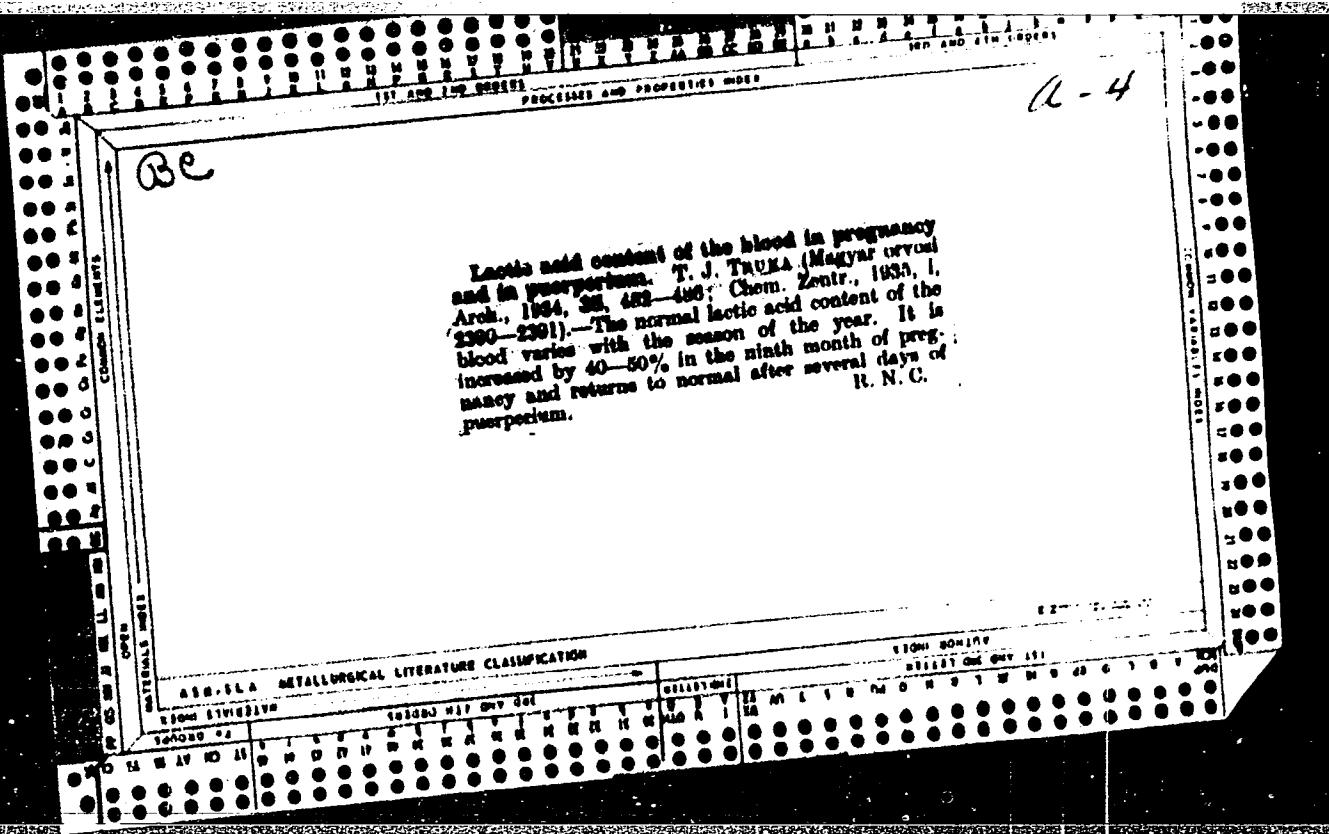
APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

MARTALOGU, N.; TRUITA, E.

Determining the energy and energy dispersion of proton beams in
the cyclotron IFA-Y-120. Studii cerc fiz 11 no.4:1059-1066 '60.
(EEAI 10:8)

1. Institutul de fizica atomica, Bucuresti.
(Protons) (Cyclotron) (Nuclear emulsions)



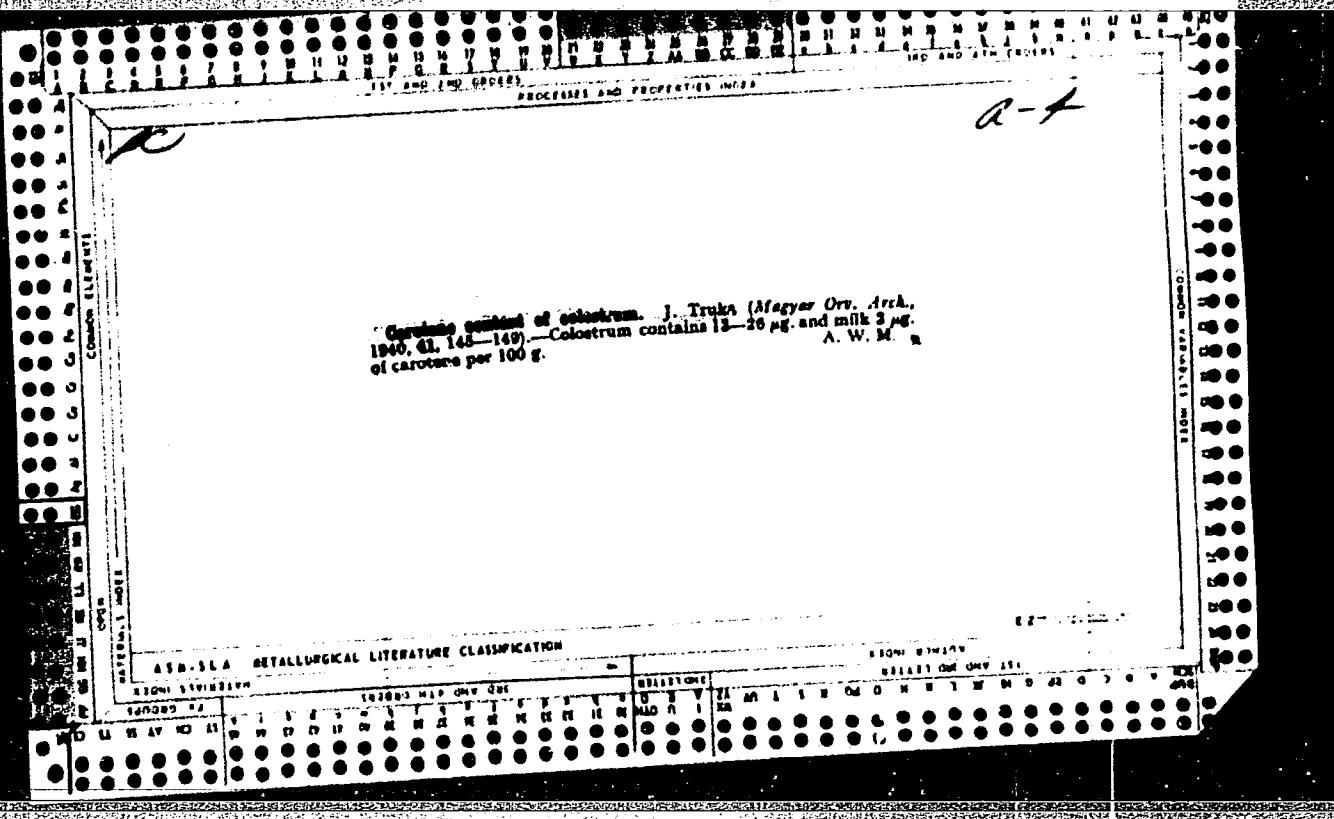
A method for the determination of lactate acid in blood. Jenó Ernst and János Truka. *Magyar Orvosi Arch.* 35, 399-91 (1934).—Blood which contains heparin as an anticoagulant is稀釋 with 0.9% NaCl and centrifuged to remove the formed elements. The plasma is deproteinized with $\text{Ca}(\text{OH})_2$ and Na_2SO_4 . To the protein-free filtrate FeCl_3 is added and the yellow color thus produced compared with standard Li lactate soln. The accuracy of the method is 87%. Henry Tauber

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11

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

1834-834177
834177 Oct 097 191



2-4

Determination of lactic acid in blood. J.
Kasten and J. Tschirka (Magyar Orvosi Arch., 1934, 35,
292-93). (Chemist, 1934, 1, 2417).—Blood is
diluted with 5% NaCl and centrifuged. The plasma
is pipetted successively with $\text{Ca}(\text{OH})_2$ and ZnSO_4 , and
lactic acid in the clear filtrate is determined colori-
metrically with FeCl_3 . J. B. A.

ASS-31A METALLURGICAL LITERATURE CLASSIFICATION

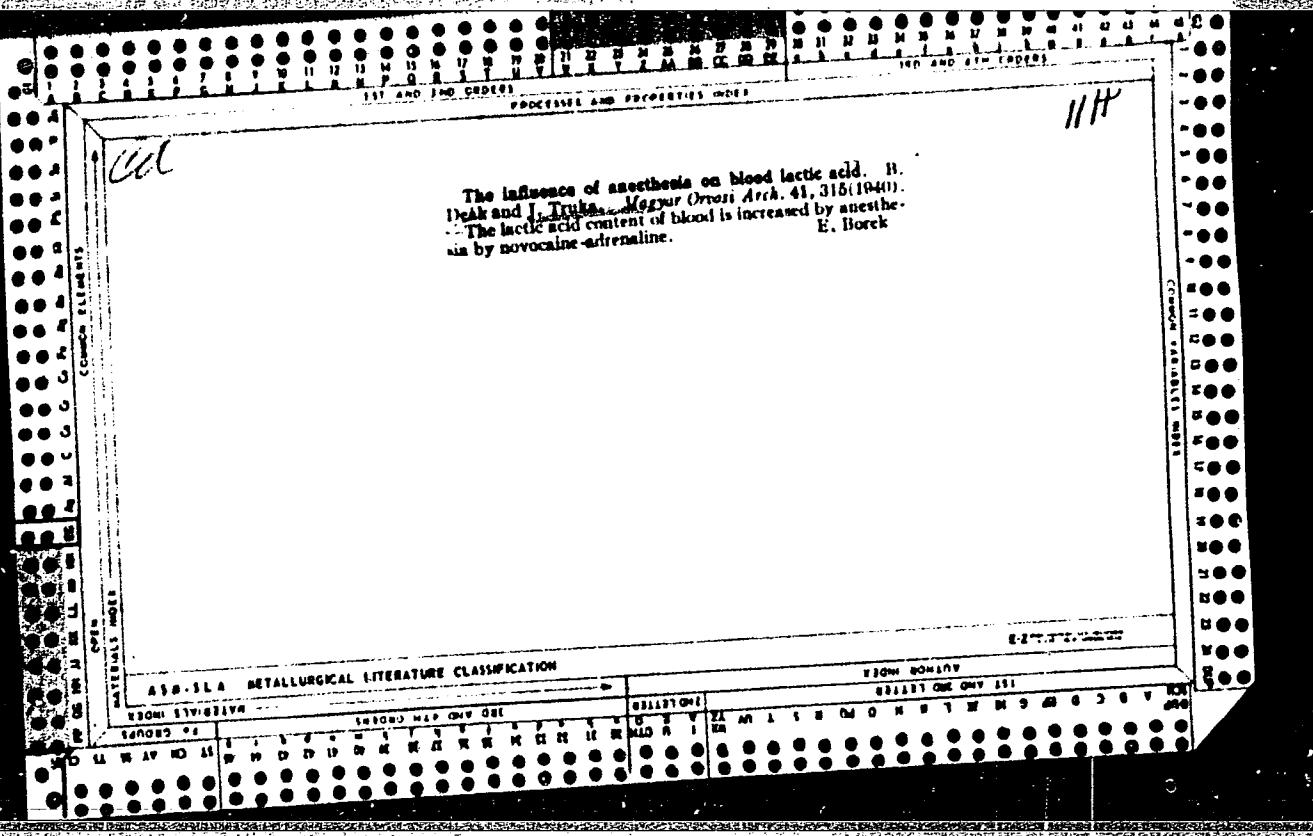
19000 STW121W

190000 M1P GSY GSY

X 3000 MONARY
011121 GSY GSY 121

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0



APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

I K U R A ,

CZECHOSLOVAKIA/Optics - Luminescence.

K

Abs Jour : Ref Zhur Fizika, No 1, 1960, 2117
Author : Dolejsi, J., Kanturek, J., Bohun, A., Truka, J.
Inst : -
Title : Luminescence, Coloring and Exoelectronic Emission
by Different Methods from Colored Crystals of CaF₂
Orig Pub : Ceskosl. casop. fys., 1958, 8, No 4, 453-464

Abstract : To observe certain optical and electrical phenomena
in CaF₂ crystals, the authors have used a complex me-
thod, consisting of measuring two quantities that
characterize simultaneously the processes that take
place. One of these was always the integral thermo-
luminescence, while the other was either the thermo-
emission, or the thermal absorption, or the thermo-
luminescence as a function of the frequency. The
measurements were carried out at a constant temperatu-
re or at a temperature that was gradually increasing

Card 1/3

CZECHOSLOVAKIA/Optics - Luminescence.

K

Abs Jour : Ref Zhur Fizika, No 1, 1960, 2117

5) the spectral analysis of thermoluminescence shows that in luminescence processes impurities of heavy metals play a substantial role, such as copper. The observed emission band near $3,850 \text{ \AA}$ belongs apparently to this element. -- V.Kopetskiy

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9.2150

44273

S/105/62/000/012/002/003
E194/E155

AUTHORS: Alferov, Zh.I., Tuchkevich, V.M., and Trukan, M.K.

TITLE: The p-n junction temperature in germanium power
rectifiers during the forward half-cycle

PERIODICAL: Elektrichestvo, no.12, 1962, 64-66

TEXT: The temperature of the p-n junction in semiconductor rectifiers may determine their failure on overload. The temperature function of the forward voltage drop is a better criterion than that of the reverse saturation current because the latter cools the p-n junction. A family of V-A characteristics is determined at different temperatures by applying current impulses to the rectifier. If the pulse characteristics are correctly chosen there is no heating of the p-i-n structure by the passage of current and no phase displacement between current and voltage due to rectifier diffusion capacitance. The thyratron pulse-generator circuit that was used delivered a sinusoidal voltage wave with an overall duration of 300 microseconds and with flattened peak lasting about 20 microseconds. Peak currents of up to 1000 A were delivered with a pulse-recurrence frequency of

Card 1/2

The p-n junction temperature in ...

S/105/62/000/012/002/003
E194/E155

1 c/s, and the results were independent of this frequency. From the results so obtained the forward voltage drop was plotted as function of temperature. Tests were made on laboratory rectifiers with junction areas of 3 and 1.5 cm² and also on commercial models type РВ8-500 (ГВВ-500) with 3 cm² area. The measurements were made in a half-wave rectifier circuit at 50 c/s. The temperature of the p-i-n structure on passing through the zero value was determined from the temperature function of the reverse saturation current. The temperature of the p-i-n structure varies almost synchronously with the current. During the forward half-cycle, heating is very considerable and for a current of 800 A it reaches 40-45 °C for rectifiers with a junction area of 3 cm² and 50-55 °C for those with 1.5 cm². There are 6 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut AN SSSR
(Physicotechnical Institute AS USSR)

SUBMITTED: March 10, 1962

Card 2/2.

L 1137-66 EWT(1)/EWT(m)/EWP(i)/T/EWP(t)/EWP(b)/EWA(h) IJP(c) JD
ACCESSION NR: AP5019851 71 UR/0181/65/007/008/2370/2374
4455 52 B 27 21

AUTHOR: Alferov, Zh. I.; Korol'kov, V. I.; Trukan, M. K.; Chashchin, S. P.

TITLE: Production and electric properties of n-type epitaxial gallium-phosphide
films 27 21

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2370-2374

TOPIC TAGS: epitaxial film, thin film, gallium compound, p-n junction 21, 44, 55

ABSTRACT: In view of the importance of epitaxial gallium phosphide films in the production of devices with ordinary and heterogeneous p-n junctions, the authors describe a procedure for obtaining such films and report the results of an investigation of some electric properties of p-type cadmium-doped epitaxial films. The single-crystal epitaxial layers ($30\text{--}40 \mu$ thick and 3×3 or 3×6 mm in area) were grown on single-crystal substrates of n-type gallium arsenide (300μ thick), using gas-transport reactions in sealed quartz ampoules evacuated to 10^{-5} mm Hg. The doping cadmium concentration ranged from 10^{17} to 10^{19} cm^{-3} . The electric measurements were made in the temperature range 77–300K with a dc potentiometer method described by L. J. van der Pauw (Phil. Res. Rep. v. 13, 1, 1958), at voltages such that the shunting effect of the substrate did not come into play. Plots are presented of the temperature dependences of the conductivity, the carrier density, and

Card 1/2

L 1437-66

ACCESSION NR: AP5019851

19

the hole mobility, as well as of the Hall mobility vs. the carrier density. The results are interpreted as being due to the joint action of two scattering mechanisms, the impurity ions and the lattice vibrations, and are found to agree with the theory. The carrier mobility is found to be governed by the concentration of the doping impurities. "The authors thank A. S. Borshchevskiy and G. A. Kalyuzhnaya for supplying the high-purity GaP platelets used to grow the films, O. V. Yemel'yanenko and D. Z. Garbuzov for valuable remarks, and V. M. Tuchkevich for continuous interest in the work." [Orig. art. has: 5 figures and 1 formula.]

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad
(Physicotechnical Institute, AN SSSR)

SUBMITTED: 26Feb65

ENCL: 60

SUB CODE: SS, EM

NO REF SOV: 003

OTHER: 006

ATD PRESS: 4100

Card 2/2 DP

ALFEROV, Zh.I.; TUCHKEVICH, V.M.; TRUKAN, M.K.

Temperature of the p-n junction of large germanium rectifiers
during the conducting half-cycle. Elektrichestvo no.12:64-66
D '62. (MIRA 15:12)

1. Fiziko-tehnicheskiy institut AN SSSR.
(Electric current rectifiers) (Germanium diodes)

ACCESSION NR: AP4040935

S/0185/64/009/006/0659/0663

AUTHOR: Alf'orov, Zh. I. (Alferov, Zh. I.); Zy*mogorova, N. S. (Zimogorova, N. S.); Samol'yanov, O. M. (Samol'yanov, A. M.); Trukan, M. K.

TITLE: Photoelectric properties of heterojunctions in some semiconductors

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 6, 1964,
659-663

TOPIC TAGS: epitaxial film, epitaxial layer, heterojunction, nonrectifying current contact

ABSTRACT: Applying the gas-transport method and using iodine as a transport agent, films of GaAs on GaP, GaP, and Ge on GaAs were prepared to obtain p—n heterojunctions. The transporting material was doped to produce a conductivity of a type opposite to that of the base. Furthermore, a method for obtaining nonrectifying contacts carrying current to the epitaxial layers of Ge, GaAs, and GaP was developed. The current-voltage characteristics of the heterojunctions and their dependence on temperatures were measured. It was

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ACCESSION NR: AP4040935

found that there are two exponential parts in the forward branch of the characteristics. The dependence of the voltage on the temperature in the forward direction is linear. The spectral distribution of photosensitivity has a characteristic shape with two maximums and is determined by both substances of the pair. The forbidden gap of the substance with a larger width of the band can be determined by the maximum in the shortwave region of the spectrum. The red limit of photosensitivity can be determined by the width of the forbidden gap of the substance with a smaller width of the band. Orig. art. has: 6 figures and 4 formulas.

ASSOCIATION: Fizy*ko-tekhnichny*y insty*tut im. A. F. Yoffe AN SRSR,
Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 20Jan64

ATD PRESS: 3056

ENCL: 00

SUB CODE: EC, EM

NO REF Sov: 009

OTHER: 001

Card

2/2

L 11043-63

EWT(1)/EWG(k)/BDS/EEC(b)-2 AFFTC/ASD/ESD-3 Pz-4 AT/IJP(C)

ACCESSION NR: AT3002983

S/2927/62/000/000/0076/0083 68

65

AUTHOR: Alferov, Zh. I.; Trukan, M. K.; Tuchkevich, V. M.

TITLE: Investigating isothermal current-voltage characteristics of germanium p-i-n structures [Report at the All-Union Conference on Semiconductor Devices, Tashkent, 2-7 October, 1961]

SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 76-83

TOPIC TAGS: germanium-rectifier characteristics, germanium rectifier heating, 2,000-a germanium rectifier, TGI1-400/16 thyratron, germanium rectifier

ABSTRACT: An extended experimental investigation of germanium power rectifiers having p-i-junction areas of 1.5 and 3 cm² is described. The rectifiers were developed by Zh. I. Alferov, V. I. Stafeyev, and V. M. Tuchkevich (Izv. LETI, vol 42, 1960) for power-supply units. A cosine-wave-shape pulse with a 20-microsec plateau was chosen for determining the current-voltage characteristics to avoid overheating the rectifier during tests. A power-pulse generator was designed with a TGI1-400/16 thyratron; it could develop up to 2,000-amp current, at 0.5-10-cps repetition rate, with a 200-500-microsec pulse duration. The measurements were made at 1 cps and 300

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ACCESSION NR: AT3002983

3

microsec pulse duration. Isothermal current-voltage characteristics of 8 germanium rectifiers were determined and compared with theoretical curves for p-i-metal and p-i-n structures. A special method for measuring temperature of a p-n junction during the forward-current half-cycle was developed. It is based on measuring the forward voltages and comparing it with the current-voltage characteristic. Oscillograms, current-voltage characteristics, and temperature-current curves are given in the article. "The authors express their gratitude to G. V. Gordeyev for a useful discussion and help in calculations and to V. I. Stafeyev for discussing the results of investigation." Orig. art. has: 10 figures and 5 formulas.

ASSOCIATION: Akad. nauk SSSR(Academy of Sciences SSSR); Akad. nauk UzSSR(Academy of Sciences UzSSR); Tashkentskiy gosuniversitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 00

DATE ACQ: 15May63

ENCL: 00

SUB CODE: 00

NO REF SOV: 002

OTHER: 001

kes/
Card 2/2

ALFEROV, Zh.I. [Alf'orov, Zh.I.]; ZIMOGOROVA, N.S. [Zymohorova, N.S.];
SAMOL'YANOV, A.M. [Samol'ianov, O.M.]; TRUKAN, M.K.

Photoelectric properties of heterojunctions in some semiconductors.
Ukr. fiz. zhur. 9 no.6:659-663 Je '64. (MIRA 17:11)

1. Fiziko-tehnicheskiy institut im. A.F. Ioffe AN SSSR, Leningrad.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

L 52785-65

ACCESSION NR: AP5010742

polycrystalline gallium phosphide of high purity. The spectral characteristics of
the material at different temperatures.

orig. art. has: 3 figures

Author: P. A. Tsvetkov; Institute of A. F. Ioffe AF RASSP, Leningrad
(Physicotechnical Institute, AF RASSP)

SUBMITTED: 05Oct64

ENCL: 00

SUB CODE: SS, OP

MR REF Sov: 002

OTHER: 006

056
Card 2/2

ACC NR: AP/005336

SOURCE CODE: JR/0131/66/003/012/3513/3522

AUTHOR: Alferov, Zh. I.; Korol'kov, V. I.; Trukan, M. K.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tehnicheskiy institut AN SSSR)

TITLE: Electric properties of GaP-GaAs p-n heterojunctions

SOURCE: Fizika tverdogo tela, v. 8, no. 12, 1966, 3513-3522

TOPIC TAGS: pn junction, volt ampere characteristic, electric capacitance, epitaxial growing, semiconductor band structure

ABSTRACT: The paper deals with the electric properties of GaP-GaAs heterojunctions, such as the volt-ampere characteristic, the capacitance-voltage characteristic, and the temperature and frequency dependences. It also deals with the interpretation of the current flow mechanism and of the fundamental parameters of the band model of the investigated heterojunctions on the basis of the experimental data. The junction were produced by epitaxial growing of GaP by the gas-transport method on single-crystal substrates of n-type GaAs oriented in the (111) plane. The GaAs was doped with tellurium. The single-crystal GaP films were doped during the growing with cadmium. The film thickness was 10 - 30 μ . The electric properties of the produced heterojunctions were measured fro a large number of samples with different degrees of doping of both the substrates and the layers. The procedure for obtaining the epitaxial films and their electric properties were described earlier (FTT v. 7, 2370, 1965 and elsewhere).

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ACC NR: AP7005836

The volt-ampere and voltage-capacitance characteristics were investigated in a temperature range 77 - 400K. The dependence of the capacitance on the voltage offers evidence of the presence of a layer of increased impurity concentration inside the space-charge region. The causes of this layer are discussed. The results are interpreted within the framework of the band model proposed by R. Anderson (Sol. St. Electronics v. 5, 341, 1962) with allowance for the presence of this layer with increased concentration of deep donor centers. The gaps in the conduction and electron bands calculated on the basis of this model agree well with the experimentally determined quantities. The authors thank V. M. Tuchkevich and D. N. Nasledov for continuous interest in the work, D. Z. Garbuzov, A. A. Lebedev, Ye. L. Portnoy, and B. V. Tsarenkov for useful discussions, and Ye. A. Gamilko, A. N. Yermakov, and A. A. Yakovenko for help with preparing the samples and the measurements. Orig. art. has: 7 figures, 11 formulas, and 2 tables.

SUB CODE: 20,09 / SUBM DATE: 15Apr66 / ORIG REF: 006 / OTH REF: 013

Card 2/2

VASIL'YEV, N.V.; SHTERNBERG, I.B.; TRUKHACHEV, G.A.

Some lysozymes of animal origin. Trudy Tomskogo
Meditsinskogo instituta. L. 270-273
(MIRA 17:7
'63).

1. Kafedra mikrobiologii Tomskogo meditsinskogo instituta.

TRUKHACHEV, M.I. (Magadan, Portovaya ul., d.5, kv. 24)

Duodenal stenosis in newborn children. Vest. Khir. 91 no.10:
102-103 0 '63. (MIRA 17:7)

1. Iz khirurgicheskogo otdeleniya (zav. - S.M. Gurevich)
Magadanskoy oblastnoy bol'nitsy (glavnnyy vrach - V.S. Chernikova).

TRUKHACHEV, M. I.

Consolidation of fractures of the bones of the forearm in children.
(MIRA 15:2)
Vest. khir. no.2:79-82 '62.

1. Iz poliklinicheskogo otdeleniya (zav. - K. V. Shirina) detskoy
ob'yedinennoy bol'nitsy (gl. vrach - L. A. Gordeyeva) g. Magadan.
Adres aytora: Magadan, poliklinicheskoye otdeleniye detskoy
ob'yedinennoy bol'nitsy.

(ARM-FRACTURE)

TRUKHACHEV, N.I. (Magadan, ul. Pushkina, d.9, kv. 3)

Closed fractures of the lower third of the forearm in children.
Ortop., travm. i protez. 25 no.8:22-27 Ag '64. (MIR 18:4)

1. Iz Magadanskoy oblastnoy detskoj ob'yedinennoy bol'ницы (glavnyy
khirurg oblasti S.A.Oganezov) i Irkutskogo instituta travmatologii i
ortopedii (dir. - prof. Z.V.Bazilevskaya).

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

L'VOV, Yu.A.; VASIL'YEV, N.V.; OSHAROV, A.B.; TRUKHACHEV, G.A.; YEROSHKINA, A.I.

Testing a hypothesis. Priroda 50 no.7:98-99 J1 '61. (MIRA 14:6)

1. Tomskiy gosudarstvennyy universitet (for L'vov, Osharov,
Yeroshkina). 2. Betatronnaya laboratoriya Tomskogo meditsinskogo
instituta (for Vasil'yev, Trukhachev).
(Ket' Valley—Tornadoes)

MARKOV, N.G.; KISLYAKOV, F.V.; TRUKHACHEV, M.M.

Grinding machine-parts surfaces by abrasive liquids. Vest.
mash. 36 no.9:56-57 S '56. (MLRA 9:10)

(Grinding and polishing) (Abrasives)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

MUKHINA, G.V.; PROTSENKO, A.N.; TBUKHACHEV, N.M.

Method for calculating fuel burning in a cylindrical reactor
with a moving shim rod system. Atom. energ. 19 no.4;280-384
0 165.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUKHACHEV, N.N.

Occurrence of a dwarf jerboa in the southern Balkhash Lake
Region. Zool. zhur. 44 no.9:1428-1429 '65. (MIRA 18:10)

1. Sredneaziatskiy nauchno-issledovatel'skiy protivochumnyy
institut, Alma-Ata.

ACC NR: A7036468

SOURCE CODE: UR/0000/66/000/000/0013/0014

AUTHOR: Agre, A. L.; Ivanov, V. M.; Trukhachov, V. T.

29

(B+)

ORG: none

TITLE: Problem of the possibility of mineralizing water-fecal mixtures by the pressure cooking method [Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 13-14

TOPIC TAGS: life support system, biologic metabolism, metabolic waste

2

ABSTRACT:

Experiments have demonstrated that it is possible to mineralize 90—93% of a urine-fecal mixture by a pressure cooking (wet combustion) method with air as the oxidizing agent.

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L 08283-67
ACC NR: AT6036468

The effects of various factors (temperature, pressure, and duration) were carefully studied under laboratory conditions. The relationships between feces and water, the required amount of the oxidizing agent (oxygen of the air) and the degree of mineralization were carefully observed. The degree of mineralization was determined on the basis of the difference between the initial chemical oxygen requirement and its terminal value expressed in terms of percentage. The chemical requirement of oxygen was determined by a bichromatic method.

In the course of the experiments it was determined that the optimum duration of cooking was 2 hr, with a temperature of 275° C, and pressure between 120 and 130 atm. This process, which develops a slight excess of air-oxygen in comparison with the initial chemical-oxygen requirement, results in mineralization of 90—93% of the fecal mixture.

The liquid which forms after mineralization is a transparent solvent with a specific aroma and a small amount of flaky sediment, which consists largely of non-water-soluble calcium and magnesium salts. The gas which forms during mineralization of the water-fecal mixture consists chiefly of carbon dioxide and residual oxygen and nitrogen.

Cord 2/3

L 08283-67
ACC NR. AT6036468

The water-fecal solvents which result from the pressure cooking method contain 5-7% residual organic substances, which act as inhibitors during cultivation of higher and lower plants on a mineralized medium. The extraction of residual organic substances results in a nutrient solution which is nontoxic for plants. [W. A. No. 22; AID Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3 LS

KRAVCHENKO, Savva Fedorovich; TRUKHACHEVA, Aleksandra Aleksandrovna;
SMIRNOV, V.A., doktor tekhn. nauk, retsenzent; TREGUBOV, N.N.,
inzh., retsenzent; BURMAN, M.Ye., inzh., retsenzent;
PRITYKINA, L.A., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Technical and chemical control and accounting of the produc-
tion of starch products from corn] Tekhnokhimicheskii kontrol'
i uchet proizvodstva krakhmaloproduktov iz kukuruzy. Mo~~sk~~va,
Pishepromizdat, 1963. 381 p.
(MIRA 16:7)
(Starch industry)

TRUKHACHEVA, A.A.; TANKLAYERA, R.A.

Rapid method for determining fats in cornstarch products. Sakh.
(MIRA 16:4)
prom. 37 no.3:56-58 Mr '63.

1. Beslanovskiy maisovyj kombinat.
(Cornstarch) (Oils and fats—Analysis)

TRUKHACHEVA, A.A.

Provide the starch and molasses industry with high-quality corn.
(MIRA 17:2)

Sakh.prom. 38 no.1:64-66 Ja '64.

1. Beslanovskiy maisovyy kombinat.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

RUSAKOV, I.M.; TRUKHALEV, A.I.

Ancient geological formations of the Kervak Range and their place
and role in its geotectonic development. Uch. zap. NITGA Reg.-soi.
(NITGA 12:10)
no.3:129-194 '64.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUKHALEV, A. I. (Leningrad K-43. Lesoparkovaya ul., d. 14, kv. 3)

Surgical treatment of neurogenic neoplasms of the mediastinum.
Grud. khir. 4 no.3:69-74 My-Je '62. (MIRA 15:7)

1. Iz kafedry torakal'noy khirurgii i anestesiologii (zav. -
prof. S. A. Gadzhiev) Leningradskogo instituta usovershenstvo-
vaniya vrachey imeni S. M. Kirova.

(MEDIASTINUM—TUMORS)

BABCHIN, I.S., prof.; BABANOVA, A.G., doktor med. nauk; BLOKHIN, N.N., prof.; BONDARCHUK, A.V., prof.; GAL'PERIN, M.D., prof.; GOL'DSHTEYN, L.M., prof.[deceased]; DYMARSKIY, L.Yu., kand. med. nauk; KARPOV, N.A., prof.; KOYRO, M.A., nauchn. sotr.; LARIONOV, L.F., prof.; LITVINOVA, Ye.V., kand. med. nauk; MEL'NIKOV, R.A., kand. med. nauk; NECHAYEVA, I.D., doktor med. nauk; PETROV, Nikolay Nikolayevich, prof.; PETROV, Yu.V., kand. med.nauk; RAKOV, A.I., prof.; ROGOVENKO, S.S., kand. med. nauk; SENDUL'SKIY, I.Ya., prof.; SEREBROV, A.I., prof.; SMIRNOVA, I.N., kand. med. nauk; TAL'MAN, I.M., prof.; TOBILEVICH, V.P., prof.; TRUKHALEV, A.I., kand. med. nauk; KHOLDIN, Semen Abramovich, prof.; CHEKHKARINA, Ye.A., kand. med. nauk; CHECHULIN, A.S., kand. med. nauk; SHAAK, V.A., prof.[deceased]; SHANIN, A.P., prof.; SHAPIRO, I.N., prof.[deceased]; SHEMYAKINA, T.V., kand. med. nauk; SHERMAN, S.I., prof.; ABRAKOV, L.V., red.; LEBEDEVA, Z.V., tekhn. red.

[Malignant tumors] Zlokachestvennye opukholi; klinicheskoe rukovodstvo. Leningrad, Medgiz. Vol.3. Pts.1-2. 1962. (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrov, Serebrov). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kholdin).

(CANCER)

TRUKHACHEVA, A.G.

Petrography of land phosphate rocks in the Chylak-Tau deposit.
Trudy GIGKHS no.7:5-41 '62. (MIRA 16:5)
(Kara-Tau region—Phosphorites)

TRUKHAN, A. P.

Automatic adjustment of arc-suppression coils. Avtomatyka no.3:
57-69 '60. (MIRA 13:10)
(Electric circuit breakers) (Electric coils)

TRUKHAN, A.P., kand. tekhn. nauk

Statistical evaluation of the maladjustment of short-circuit current to ground compensation in a large cable network. Energ. i elektrotekh. prom. no.1:11-14 Ja-Mr '65. (MIRA 18:5)

TRUKHAN, A.P.

TRUKHAN, A.P., kand. tekhn. nauk

Transistorized phase sensor. Energ. i elektrotekh. prom.
no. 3:41-42 J1-3 '65. (MIRA 18:9)

TRUKHAN, A.P. (Kiyev)

New methods for the automatic setting of an arc-quenching coil.
Avtomatyka 7 no.5:53-55 '62. (MIRA 15:11)
(Electric arc) (Electric coils)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0

TRUKHAN, A.P.

Principles of the automatic adjustment of arc-quenching coils.
Trudy Inst. elekrotekh. AN UkrSSR 20:60-92 '63.
(MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUKHAN, A.P.

A regulator for automatic adjustment of arc-quenching coils in
electric cable networks. Energ.i elektrotekh.prom. no.4:6-8
(MIRA 16:2)
O-D '62.
(Electric controllers) (Electric protection)

TRUKHAN, E.M.

Dispersion of dielectric permeability in heterogeneous systems.
(MIRA 15:12)
Fiz.tver.tela 4 no.12:3496-3511 D '62.

1. Moskovskiy fiziko-tehnicheskiy institut.
(Dielectric constant) (Electric fields)

ACC NR: AP6023872

SOURCE CODE: UR/0109/66/011/007/1257/1265

AUTHOR: Trukhan, E. M.

ORG: none

TITLE: Method for measuring the Hall effect at SHF by means of a degenerate resonator

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1257-1265

TOPIC TAGS: SHF, Hall effect, cavity resonator

ABSTRACT: Heretofore, various researchers (e.g., N. Watanabe, Rev. El. Commun. Lab., 1960, 8, 5-6, 256) have neglected the polarization-plane rotation of electromagnetic waves due to free carriers in the resonator walls. In the case of low-conductance materials, this neglectance is no longer tolerable. Hence, the present article theoretically examines the transmission of an electromagnetic

UDC: 621.317.3:538.632

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ACC NR: AP6023872

wave through a degenerate resonator containing a semiconductor specimen in a magnetic field, without resorting to an equivalent circuit and with an allowance for the wall effect. The flowing of SHF energy from a TE_{m,n} -mode existing in a degenerate cylindrical resonator to an orthogonal mode, under the influence of an external magnetic field, is considered. As the theoretical formula for this power flow-over is complicated, this "working formula" is finally derived with certain simplifying assumptions: $u = \frac{1}{\eta} \left[\frac{10^8}{H_0} \frac{2}{1-\Gamma^2} \sqrt{\frac{P_2}{P_0}} - \xi \beta u_0 \right]$. Orig. art. has: 1 figure, 48 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 25Jan65 / ORIG REF: 005 / OTH REF: 006

Card 2/2

L 3604-66 EWT(d)/EWT(1)/EEC(k)-2 IJP(+)
ACCESSION NR: AP5021363

UR/0120/65/000/004/0198/0203

537.74:538.632

56
30
B

AUTHOR: Trukhan, E. M. 44,5

TITLE: A device for the measurement of small losses and of the Hall effect at UH frequencies 1,44,5 1M

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 198-203

TOPIC TAGS: UHF, Hall effect, electronic circuit, physics laboratory instrument, semiconductor theory, semiconductor polymer, electronic measurement

ABSTRACT: Numerous polymeric organic materials with semiconductor properties have been obtained in the past few years. They are in most cases obtained in heterogeneous forms, and it is quite difficult to determine precisely their semiconductor parameters. In an earlier paper this author investigated the frequency dependence of the conductivity of such heterogeneous systems. The present article describes a highly sensitive device for the determination of small variations in losses within samples (through the measurement of the Q-factor changes of the resonator) and of the Hall effect (within a degenerate H₁₁₁

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ACCESSION NR: AP5021363

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resonator) in the 3-cm wave range. The device is quite universal in character and can be used for the study of the photoconductivity, cyclotron and electron paramagnetic resonance, and for the determination of the mobility and sign of changes in powder, plate, and crystalline samples. A typical Hall effect diagram is shown in Fig. 1 of the Enclosure. "The author thanks Ye. P. Fesenko^{for substantial help during the construction of the instrument!}"
Orig. art. has: 6 formulas and figures.

ASSOCIATION: Moskovskiy fiziko-tehnicheskiy institut (Moscow Physics-Engineering Institute)

SUBMITTED: 20 July 64

ENCL: 01

SUB CODE: EC

NO REF SOV: 006

OTHER: 006

Card 2/3

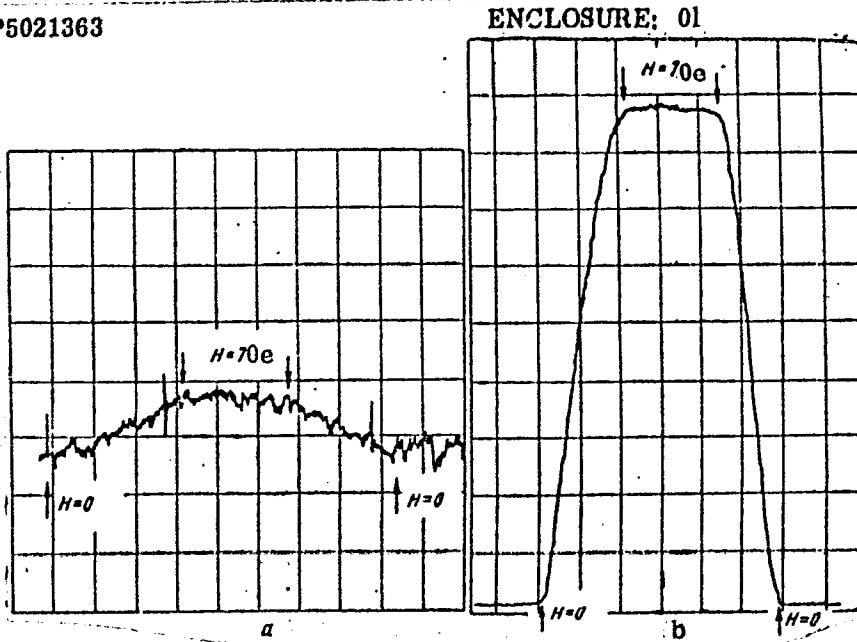
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ACCESSION NR: AP5021363

Fig. 1. Hall effect
in ZnO powder:

- a) from the output
of the direct
amplifier receiver;
- b) from the output
of the super-
heterodyne
receiver.

ENCLOSURE: 01



M. C.
Card 3/3

44172

24710

S/181/62/004/012/021/052
B104/B102

AUTHOR: Trukhan, E. M.

TITLE: The dispersion of the dielectric constant in heterogeneous systems

PERIODICAL: Fizika tverdogo tela, v. 4, no. 12, 1962, 3496-3511

TEXT: The polarization of two models of heterogeneous media is investigated in an alternating electric field. The first heterogeneous medium consists of plane conducting layers surrounded by an insulator. In the second model, conducting spherical particles are placed inside an insulator. The electric field $E(x,t) = E(x) \exp(i\omega t)$ with the potential $\varphi(x,t) = \varphi(x)(\exp(i\omega t))$ is applied to the first model (Fig. 1). The carriers redistribute according to the equations of continuity

$$\frac{\partial n_+}{\partial t} = \frac{\partial}{\partial x} \left[D_+ \frac{\partial n_+}{\partial x} + u_+ n_+ \frac{\partial \varphi}{\partial x} \right], \quad (1)$$

$$\frac{\partial n_-}{\partial t} = \frac{\partial}{\partial x} \left[D_- \frac{\partial n_-}{\partial x} - u_- n_- \frac{\partial \varphi}{\partial x} \right]. \quad (2)$$

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The dispersion of the dielectric ...

and according to Poisson's equation

$$\frac{\partial \varphi}{\partial x^2} = -\frac{4\pi e}{\epsilon_0} (n_+ - n_-), \quad (3),$$

where e is the absolute carrier charge and D is the diffusion coefficient.
In weak fields

$$n_+(x, t) = n + \mu_+(x) e^{i\omega t}, |\mu_+| \ll n; \quad (4)$$

$$n_-(x, t) = n + \mu_-(x) e^{i\omega t}, |\mu_-| \ll n. \quad (5)$$

can be assumed, which leads to the equations

$$i\omega \mu_+(x) = D_+ \mu''_+(x) + u_+ n \varphi''(x), \quad (6)$$

$$i\omega \mu_-(x) = D_- \mu''_-(x) - u_- n \varphi''(x). \quad (7)$$

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The dispersion of the dielectric ...

using (1) - (2). Using the relation $D_e = \epsilon_0 kT$ and substituting (3) in (6) - (7), one obtains

$$\begin{aligned} \mu''_+ - \left(a_+ + \frac{x^2}{2} \right) \mu_+ + \frac{x^2}{2} \mu_- &= 0, \\ \mu''_- - \left(a_- + \frac{x^2}{2} \right) \mu_- + \frac{x^2}{2} \mu_+ &= 0, \end{aligned} \quad (9)$$

$$a_+ = \frac{i\omega}{D_+}, \quad a_- = \frac{i\omega}{D_-}, \quad x^2 = \frac{8\pi e^2 n}{\epsilon_0 k T}. \quad (10).$$

The solutions of (9) - (10) are written in the form

$$\begin{aligned} \mu_+(x) &= A_1 \sinh k_1 x + A_2 \sinh k_2 x + A_3 \cosh k_1 x + A_4 \cosh k_2 x, \\ \mu_-(x) &= B_1 \sinh k_1 x + B_2 \sinh k_2 x + B_3 \cosh k_1 x + B_4 \cosh k_2 x, \end{aligned} \quad (13),$$

$$k_1 = \frac{1}{\sqrt{2}} \sqrt{a_+ + a_- + x^2 + \sqrt{(a_+ - a_-)^2 + x^4}},$$

$$k_2 = \frac{1}{\sqrt{2}} \sqrt{a_+ + a_- + x^2 - \sqrt{(a_+ - a_-)^2 + x^4}}.$$

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The dispersion of the dielectric ...

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where α_+ and α_- are imaginary and k_1 and k_2 are complex quantities. On condition that the total carrier number is constant,

$$E_1(x) = \frac{8\pi e}{\epsilon_2} \left[A_1 \frac{\alpha_+ - k_1^2}{k_1^2 x^2} \operatorname{ch} k_1 x + A_2 \frac{\alpha_+ - k_2^2}{k_2^2 x^2} \operatorname{ch} k_2 x \right] - C_1, \quad (16)$$

$$\varphi_1(x) = -\frac{8\pi e}{\epsilon_2} \left[A_1 \frac{\alpha_+ - k_1^2}{k_1^2 x^2} \operatorname{sh} k_1 x + A_2 \frac{\alpha_+ - k_2^2}{k_2^2 x^2} \operatorname{sh} k_2 x \right] + C_1 x + D_1. \quad (17)$$

is obtained for the field and for the potential. The potential in the layers 1 and 3 is $\varphi_1(x) = C_1 x + D_1$ and $\varphi_3(x) = C_3 x + D_3$. In determining the eight integration constants it is shown that the condition $C_2 = 0$ postulated by Ya. I. Frenkel' (Kolloidnyy zhurnal, 10, 148, 1948) is wrong, this being clearly apparent from the formula for the total current

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B104/B102

The dispersion of the dielectric ...

$$J = - \left[en(u_+ + u_-) + \frac{ia\epsilon_2}{4\pi} \right] C_s e^{iat}. \quad (20).$$

Finally, the equivalent dielectric constant $\bar{\epsilon} = \epsilon_1 c_1 d / (\psi_3^0 - \psi_1^0)$ is discussed. The expressions

$$\frac{\epsilon}{\epsilon_1} = \frac{d}{d_3} \left\{ a_1 + \frac{2t_+ t_-}{2t_+ t_- - i(t_+ + t_-)} + \frac{i}{hp} \left[(1-p) \operatorname{th} k_1 a \left(\frac{x}{k_1} \right)^3 - (1-p) \operatorname{th} k_2 a \left(\frac{x}{k_2} \right)^3 \right] \right\}^{-1},$$

and

$$\frac{\epsilon}{\epsilon_2} = \frac{d}{d_3} \left\{ a_1 + \frac{3t_+ t_-}{2t_+ t_- - i(t_+ + t_-)} - \frac{i}{hp} \left[(1-i/p) \operatorname{th} k_1 a \left(\frac{x}{k_1} \right)^3 - (1-i/p) \operatorname{th} k_2 a \left(\frac{x}{k_2} \right)^3 \right] \right\}^{-1}.$$

are obtained for the frequency dependences of the equivalent parameters,
where

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The dispersion of the dielectric ...

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$$\left. \begin{aligned} t_+ &= \frac{ia_+}{x^2} = \frac{\omega}{D_+ \pi^2}, \\ t_- &= \frac{ia_-}{x^2} = \frac{\omega}{D_- \pi^2}; \end{aligned} \right\} \quad (23)$$

$$p^2 = 1 - (t_+ - t_-)^2, \quad (24)$$

$$a_1 = \frac{d_1 e_2}{d_2 e_1} + \frac{d_2 e_3}{d_3 e_2}, \quad (25).$$

$h = d_1 x.$

It is shown that the mechanism assumed by J. C. Maxwell (Treatise on Electricity and Magnetism, 3rd ed. Oxford, I, pt. X. 1904) and by K. W. Wagner (Arch. Electrotechn., 2, 371, 1914) furnishes correct results only if the Debye screening radius is sufficiently small. An analogous calculation was performed for the second model. There are 7 figures.

ASSOCIATION: Moskovskiy fiziko-tehnicheskiy institut (Moscow Physico-technical Institute)

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The dispersion of the dielectric ...

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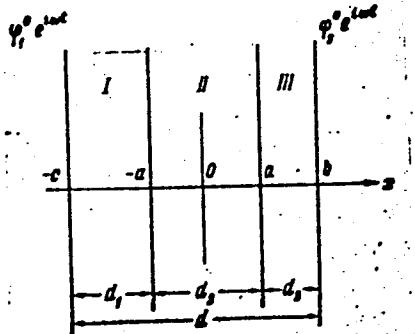


Fig. 1. Model 1.

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CIA-RDP86-00513R001756820002-0

MANYUTA, I.M., inzh.; TRUBEN, G.D., inzh.

Set of stands for manufacturing reinforced concrete pipes. Sverd,
1 dor. mash. 9 no. 2:26-30 F '64.
(MIRA 18:7)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820002-0"

TRUKHAN, G.L., kand.tekhn.nauk, dotsent

Drafting and grading of patterns for mass-production clothing.
Izv.vys.ucheb.zav.; tekhn.leg.prom. no.4;114-120 '60. (MIRA 13:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.
(Dressmaking--Pattern design) (Clothing industry)

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Patternmaking for mass produced clothing. Izv.vys.ucheb.zav.; tekh.
leg.prom. no.2:79-89 '61. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii shveychnogo proizvodstva.
(Dressmaking--Pattern design) (Clothing industry)

RUSAKAV, Sergey Ivanovich; TRUKHAN, Gennadiy Lukich; EPPEL', Sergey
Sergeyevich; POPKOV, Vasiliy Ivanovich; VORONIN, G.M., inzh.,
retsenzent; KARASEV, V.K., dots., retsenzent; ANTIPOVA, A.I.,
prepod., retsenzent; SHANG'GINA, V.F., kand. tekhn. nauk,
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[Technology of clothing manufacture] Tekhnologija shveinogo
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Ye.B., kand. tekhn.nauk, dots., retsenzent; GABOVA, D.M.,
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1. Kiysavskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.
(Garment cutting)

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ACC NR: AP6019122

SOURCE CODE: UR/0016/65/000/011/0138/0138

AUTHOR: Trukhan, P.T.; Tishchenko, I.T.; Stankevich, L.A.; Popova, A.A.;
Dobrovskaya, A.R.

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30
B

ORG: Kiev Institute for the Advanced Training of Physicians (Kiyevskiy institut usovershenstvovaniya vrachey); Kiev Municipal Sanitary-Epidemiological Station (Kiyevskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Podol'skiy Area Sanitary-Epidemiological Station, Kiev (Sanitarno-epidemiologicheskaya stantsiya Podol'skogo rayona Kiyeva)

TITLE: Use of gamma globulin to prevent infectious hepatitis in children. II. Results of epidemiological observations among groups of children. [This paper was presented at the meeting of the Kiev City Society of Microbiologists, Epidemiologists and Infectious Diseases Specialists on 30 September 1964]

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 138

TOPIC TAGS: gamma globulin, hepatitis, epidemiology, immunization, man

ABSTRACT: In September 1963 some 5000 children in nurseries, kindergartens, and grade schools in Kiev were immunized with a single 3 ml dose of human gamma globulin while an equal number served as controls. The observation period of 12 months consisted of two intervals: (1) October 1963 to May 1964 and (2) June to September 1964. The incidence of hepatitis among the

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immunized children was one-third that in the controls, and there were five times fewer cases during the first interval than in the controls and half as many cases during the second interval. The effectiveness of the gamma globulin subsequently decreased, apparently because of a weakening of immunity.

To check the epidemiological effectiveness of gamma globulin injections, some 1,600 children were immunized with the substance while an equal number served as controls. After 8 months of observation the hepatitis rate was one-seventh of that prior to immunization, suggesting that a fairly high level of immunity can be created with an immune layer of 50%.

The authors concluded that human gamma globulin is a useful means of preventing infectious hepatitis. September is the best month to administer it in Kiev because the fall and winter are the most dangerous seasons for the disease. In addition to the principal authors, the following epidemiologists of the Podol'skiy Area Sanitary-Epidemiological Station, Kiev, took part in the organization of the work and the observations: M. P. Petrova, A. A. Ryazanskaya, S. P. Trigubov, A. M. Rabinovich and S. S. Geler. /JPRS/

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Card 2/2

BLG

UDC: 626.36-002.12-084.47:615.37-053.2

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Characteristics of disorders of thinking in patients with the paranoiac variant of paranoid schizophrenia; clinical psychological study. Trudy Gos. nauch.-issl. inst. psikh. 43:198-206 (MIFI A 18:7) '65.

1. Klinika eksperimental'noy terapii shizofrenii i drugikh psichozov (nauchnyy rukovoditel' - prof. I.G.Ravkin) i Laboratoriya eksperimental'noy patopsikhologii (zaveduyushchaya - prof. B.V. Zeygarnik) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii, Moskva.

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1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

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